Operator: AMEREN ILLINOIS COMPANY	Operator ID#: 32513
Inspection Date(s): 10/20/2015, 10/21/2015 (Half)	Man Days: 1.5
Inspection Unit: Macomb	
Location of Audit: Macomb	
Exit Meeting Contact:	
Inspection Type: Standard Inspection - Record Audit	
Pipeline Safety Representative(s): Kevin Hecker	
Company Representative to Receive Report: Michael Fuller	
Company Representative's Email Address: mfuller2@ameren.com	

Chris Juliusson	Quality Assurance Consultant	
Inspection Contact(s)	Title	Phone No.
	Email:	
	Phone#: (217) 424-6518	
Official or Mayor's Name:	Ron Pate	
	Fax#:	
	Emergency Phone#: (800) 755-5000	
	Peoria, IL 61602	
Headquarters Address Information:	300 Liberty	

Gas System Operations	
Gas Transporter	Panhandle
Annual Report (Form 7100.1-1) reviewed for the year:	Satisfactory
Unaccounted for Gas	.61%
Number of Services	822544
Miles of Main	16996.5
Is the operator maintaining documentation verifying their Maximum Allowable Operating Pressure(s)? (MAOP)	Satisfactory
Operating Pressure (Feeder)	various
Operating Pressure (Town)	various
Operating Pressure (Other)	various

MAOP (Feeder)		various
MAOP (Town)		various
MAOP (Other)		various
Does the operator have any transmission pip	pelines?	Yes
Regulat	ory Reporting Records	Status
Category Comment:		
Reporting records for material failures, incidents, and sa	afety related conditions are housed in Pawnee and were not reviewed during this a	udit.
[191.5]	Were Telephonic Notices of Incidents reported to the NRC (800-424-8802)?	Not Checked
[191.9(a)]	Was a DOT Incident Report Form F7100.1 submitted within 30 days after detection of an incident?	Not Checked
[191.9(b)]	Were any supplemental incident reports submitted when deemed necessary?	Not Checked
Did the operator have any plastic pipe failure	s in the past calendar year?	Not Checked
Did the operator take action to mitigate safet components?	y concerns relating to the failure of the PE or pipeline	Not Checked
[191.23(a)]	Did the operator report Safety Related Conditions?	Not Checked
[191.25]	Did the Operator file a Safety Related Condition Report within 5 working days of determination, but not later than 10 working days after discovery?	Not Checked
[192.16(c)]	Customer Notification: Has the operator notified each new customer within 90 days about the customer's responsibility regarding buried piping, however, operators of a master meter may continuously post a general notice in a permanent location?	Not Checked
TES	T REQUIREMENTS	Status
Category Comment:		
Pressure test records are maintained at Decatur Plaza a	and were not reviewed during this audit.	
[192.517(a)][192.505,192.507,192.511(c)]	Are pressure test records being maintained for piping operating above 100 psig?	Not Checked
[192.517(b)][192.511,192.509,192.513]	Are pressure test records being maintained for at least 5 years on piping operating below 100 psig?	Not Checked
[192.603(b)][192.725]	Were service lines temporarily disconnected from the main properly tested prior to reconnection?	Not Checked
	UPRATING	Status

No areas within Ameren Macomb's operating te	rritory were uprated in 2013 or 2014.	
[192.555][192.555]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of 30% or more SMYS?	Not Applicable
[192.557][192.557]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of less than 30% SMYS?	Not Applicable
	OPERATIONS	Status
[192.603(b)][192.605(a)]	Has the operator conducted a review of the Operations and Maintenance Manual once per yr/15 months?	Satisfactory
General Comment:		
The O&M change summary demonstrates that A	Ameren's O&M plan has been reviewed multiple times during 2013 and 2014.	
Has the operator conducted a review of	of the Operator Qualification Plan once per yr/15 months?	Yes
[192.603(b)][192.605(b)(3)]	Are construction records, maps, and operating history available to operating personnel?	Satisfactory
General Comment:	<u> </u>	
Field personnel have access to an electronic ma	apping system and an electronic version of the O&M.	
[192.603(b)][192.605(b)(8)]	Has the operator periodically reviewed personnel's work to determine the effectiveness of normal O&M procedures when deficiencies are found?	Satisfactory
CONTIN	UING SURVEILLANCE RECORDS	Status
[192.603(b)][192.613(a)]	Has the operator reviewed continuing surveillance records for class location changes, failures, leak history, corrosion, changes in cathodic protection, and other unusual operating and maintenance conditions?	Not Checked
General Comment:	,	
Surveillance records are maintained at the Pawl	nee Operating Center.	
[192.491][192.489]	Does the operator have records verifying if exposed cast iron was examined for evidence of graphitization and if necessary what appropriate action was taken concerning graphitization?	Not Applicable
General Comment:	<u> </u>	
Ameren Macomb's gas system does not contain	any cast iron pipe.	
[192.603(b)][192.755]	Does the operator have surveillance records of cast iron pipelines, including appropriate action resulting from tracking circumferential cracking failures, study of leak	Not Applicable

Unless otherwise noted, all code references are to 49CFR Part 192.

If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

General Comment:		
Ameren Macomb's gas system does not contain	any cast iron pipe.	
[192.603(b)][192.753(a)]	Is each cast iron caulked bell and spigot joint that is subject to a pressure of more than 25 (psig.) sealed as required?	Not Applicable
General Comment:		•
Ameren Macomb's gas system does not contain	any cast iron pipe.	
[192.603(b)][192.753(b)]	Is each cast iron caulked bell and spigot joint that is subject to a pressure of 25 (psig.) or less and is exposed for any reason sealed as required?	Not Applicable
General Comment:		
Ameren Macomb's gas system does not contain	any cast iron pipe.	
DAM	AGE PREVENTION RECORDS	Status
Category Comment:		
Damage prevention records are maintained at the	ne Pawnee Operating Center and were not reviewed during this audit.	
[192.603(b)][191.11(a)]	Did the operator track the number of damages per 1000 locate requests for the previous years?	Not Checked
Has the number of damages increased	or decreased from prior year?	Not Checked
[192.603(b)][192.617]	Does the operator track records of accidents due to excavation damage to ensure causes of failures are addressed to minimize the recurrence?	Not Checked
[192.603(b)][192.614(c)(3)]	Does the operator provide documentation pertaining to notification of excavation, marking, positive response, and the availability and use of the one call system?	Not Checked
Does the operator have a Quality Assufacilities?	rance Program in place for monitoring the locating and marking of	Not Checked
Do pipeline operators include performa	nce measures in facility locating contracts?	Not Checked
[IL ADM. CO.265.100(b)(1)]	Was third party damage to mains involving a release of gas reported to ICC JULIE Enforcement? http://www.icc.illinois.gov/julie/	Not Checked
Has the Operator adopted applicable s	ections of the Common Ground Alliance Best Practices?	Not Checked
Were Common Ground Alliance Best F	Practices discussed with the Operator?	Not Checked
	EMERGENCY PLANS	Status
Category Comment:		
Emergency Plan records, training, liaison meeting	ng records, and odor/leak complaint response times are maintained at the Pawnee Opera	ting Center and were

not reviewed during this audit.

General Comment:		
[192.603(b)][192.721(b)(1)]	Is the operator patrolling business districts at a minimum of 4 per year/4 1/2 months?	Satisfactory
PATRO	OLLING & LEAKAGE SURVEY	Status
Ameren is not a master meter operator.		
General Comment:		
[192.603(b)][192.625(f)(2)]	Has the master meter operator maintained documentation of sniff tests performed as required by this section?	Not Applicable
Ameren is not a master meter operator.		
General Comment:		
[192.603(b)][192.625(f)(1)]	Are master meter operators receiving written verification of odorant concentration levels from their gas supplier?	Not Applicable
	mb operating territory. Odorizers are located at the Milton take point and Sciota Storage.	Both of these
General Comment:		
[192.603(b)][192.625(e)]	Has the operator maintained documentation of odorizer tank levels?	Not Applicable
Staff reviewed odorant tests conducted in 2013 a	nd 2014.	
General Comment:	The second secon	
[192.603(b)][192.625(f)]	Has the operator maintained documentation of odorant concentration level testing using an instrument?	Satisfactory
	ODORIZATION OF GAS	Status
[192.603(b)][192.615(a)(3)]	Did the review of emergency response time intervals regarding odor/leak complaint documentation indicate adequate emergency response intervals were achieved?	Not Checked
[192.603(b)][192.615(c)]	Has the operator maintained documentation that the operator established and maintained liaison with appropriate fire, police and other public officials?	Not Checked
[192.603(b)][192.615(b)(3)]	Has the operator maintained documentation of employee activity reviews to determine whether the procedures were effectively followed in each emergency?	Not Checked
[192.603(b)][192.615(b)(2)]	Has the operator maintained documentation that the appropriate operating personnel have received training to assure they are knowledgeable of emergency procedures and that the training was effective?	Not Checked
[192.603(b)][192.615(b)(1)]	Are supervisors, responsible for emergency action, furnished copies of the latest edition of the Emergency Plan?	Not Checked

Staff reviewed patrol records for 2013 and 2014.		
[192.603(b)][192.721(b)(2)]	Is the operator patrolling outside business districts at a minimum of 2 per year/7 1/2 months?	Satisfactory
General Comment:		
Staff reviewed patrol records for 2013 and 2014.		
[192.603(b)][192.723(b)(1)]	Is the operator performing leakage surveys in business districts at a minimum of 1 per year/ 15 months? If the operator has inside meter sets that meet this criterion then were those surveyed?	Satisfactory
General Comment:		
Records for 2013 and 2014 business district leak surveys w	ere reviewed, which included inside meter sets.	
[192.603(b)][192.723(b)(2)]	Is the operator performing leakage surveys outside a business district at a minimum of every 5 years/63 months? Is the operator performing leakage surveys on cathodically unprotected pipelines at a minimum of every 3 years/39 months? If the operator has inside meter sets that meet this criterion then were those surveyed? If the operator has yard lines then are those being surveyed?	Satisfactory
General Comment:		
Records for 2013 and 2014 leak surveys conducted outside	the business district were reviewed.	
YARD LIN	NES - RESIDENTIAL	Status
[220 ILCS 2.2.03]	Has the operator designated and documented the location of all services where the meter is located more than 3 feet away from the wall of a residence?	Satisfactory
General Comment:	<u> </u>	
Staff reviewed yard line records for the entire Macomb open	ating territory.	
[192.463,220 ILCS 2.2.03][220 ILCS 2.2.03]	Has the operator determined if cathodic protection is required on these services?	Satisfactory
General Comment:		
The operator does not provide cathodic protection on yard li	nes.	
The operator does not provide callibrate protection on yard if		
[192.723(b)(1),192.723(b)(2)][220 ILCS 2.2.03]	After the determination of the cathodic protection requirements, has the operator surveyed each line within the required leakage survey intervals?	Satisfactory
	requirements, has the operator surveyed each line within	Satisfactory
[192.723(b)(1),192.723(b)(2)][220 ILCS 2.2.03]	requirements, has the operator surveyed each line within the required leakage survey intervals?	Satisfactory
[192.723(b)(1),192.723(b)(2)][220 ILCS 2.2.03]  General Comment:  Staff reviewed records for leak surveys conducted on yard li	requirements, has the operator surveyed each line within the required leakage survey intervals?	Satisfactory Status

	that each pipeline abandoned in place was disconnected from all sources and supplies of gas, and purged of gas?	
General Comment:	11 3 7 1 3 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
No pipelines were abandoned in the Macomb	operating territory during 2013 or 2014.	
[192.603(b)][192.727(c)]	Did the operator maintain documentation demonstrating that each inactive pipeline that is not being maintained under this part was disconnected from all sources and supplies of gas; purged of gas?	Not Applicable
General Comment:	•	
No pipelines were made inactive in the Macom	nb operating territory during 2013 or 2014.	
[192.603(b)][192.727(d)]	Did the operator maintain documentation demonstrating that whenever service to a customer was discontinued access to gas was either; locked, prevented by a mechanical fitting, or disconnected from the gas supply and open pipe ends sealed?	Satisfactory
[192.603(b)][192.727(e)]	Did the operator maintain documentation when air was used for purging that a combustible mixture was not present after purging?	Not Applicable
General Comment:		
No pipelines were abandoned in the Macomb	operating territory during 2013 or 2014.	
[192.727(g)][192.727(g)]	Did the operator maintain documentation for each abandoned onshore pipeline facility that crosses over, under or through a commercially navigable waterway?	Not Applicable
General Comment:		
Ameren Macomb's gas system does not conta	in pipelines that cross commercially navigable water ways.	
PRESS	URE LIMITING AND REGULATION	Status
[192.603(b)][192.739(a)]	Is the operator inspecting and testing the pressure limiting and regulating stations at a minimum of 1 per year/15 months?	Satisfactory
General Comment:	·	
Staff reviewed inspection dates for all regulato	r inspections conducted in 2013 and 2014 in Ameren's GCS system.	
[192.603(b)][192.743(a)]	Is the operator inspecting pressure limiting and regulating stations for adequate capacity at a minimum of 1 per year/15 months?	Satisfactory
[192.603(b)][192.743(b)]	If the operator used calculations to determine sufficient capacity, were the calculation reviews documented at a	Satisfactory
. , ,,,,	minimum of 1 per year/15 months?	,

tion Of Failures  Did the operator experience accidents or failures requiring analysis?	Not Applicable  Status  Not Applicable
feet at a minimum of 1 per year/15 months?	
feet at a minimum of 1 per year/15 months?	ног Аррисавіе
	ног Аррисавіе
	Not Applicable
Did the operator inspect and maintain vaults > 200 cubic	Not Applicable
GCS system for 2013 and 2014.	
Did the operator inspect and maintain distribution valves necessary for the safe operation of the system at a minimum of 1 per year/15 months?	Satisfactory
IAINTENANCE	Status
If Yes, does the operator have documentation to verify that these devices have adequate capacity?	Not Applicable
take point with Panhandle Eastern in 2016.	
•	
Is overpressure protection provided by the supplier pipeline downstream of the take point?	No
the Gas Control Record Audit in Decatur.	
oporating conditions.	
If there were indications of abnormally high- or low- pressure, were actions taken to correct any unsatisfactory	Not Checked
the Gas Control Record Audit in Decatur.	
gauges to indicate the gas pressure in the district?	
district pressure regulating station, or where required by the operator on a system supplied by a single regulating station, equipped with telemetering or recording pressure	Not Checked
	the operator on a system supplied by a single regulating station, equipped with telemetering or recording pressure gauges to indicate the gas pressure in the district?  If the Gas Control Record Audit in Decatur.  If there were indications of abnormally high- or low-pressure, were actions taken to correct any unsatisfactory operating conditions?  If the Gas Control Record Audit in Decatur.  Is overpressure protection provided by the supplier pipeline downstream of the take point?  If Yes, does the operator have documentation to verify that these devices have adequate capacity?  IAINTENANCE  Did the operator inspect and maintain distribution valves necessary for the safe operation of the system at a minimum of 1 per year/15 months?

WI	ELDING OF STEEL PIPE	Status
[192.603(b)][192.225(b)]	Does the operator have documentation for their qualified welding procedure?	Satisfactory
General Comment:		
Ameren's welding procedures can be found in the 0	D&M, in the section titled "WELD."	
[192.603(b)][192.227,192.229]	Does the operator have documentation of welder qualification as required?	Satisfactory
General Comment:	<u> </u>	
Staff reviewed qualification records for all welders i	n the Macomb Operating Center for 2013 and 2014.	
[192.807]	Does the operator have documentation of welder OQ records?	Satisfactory
General Comment:		
Staff reviewed all OQ records for personnel perform	ning welding as a covered task for 2013 and 2014.	
[192.709][192.243(b)(2)]	Does the operator have documentation of NDT personnel qualification as required?	Satisfactory
[192.709][192.243(f)]	Does the operator have documentation of NDT testing performed?	Satisfactory
JOINING OF MATERIAL OTHER THAN WELDING		Status
[192.603(b)][192.285]	Are persons making joints with plastic pipe qualified?	Satisfactory
General Comment:		
Staff reviewed qualification records for all personne	l who joined plastic pipe in the Macomb Operating Center for 2013 and 2014.	
[192.603(b)][192.287]	Are persons inspecting plastic pipe joints qualified?	Satisfactory
General Comment:		
Staff reviewed qualification records for all personne	el who inspected plastic pipe in the Macomb Operating Center for 2013 and 2014.	
[192.603(b)][192.283]	Are qualified joining procedures for plastic pipe in place?	Satisfactory
General Comment:		
Ameren's joining procedures can be found in the O	&M, in the section titled "POLY."	
CORRO	OSION CONTROL RECORDS	Status
[192.491(a)][192.491(a)]	Has the operator maintained maps or records of cathodically protected piping, cathodic protection facilities, galvanic anodes, and neighboring structures bonded to the cathodic protection system?	Unsatisfactory

in 2013.	son Street is no longer an isolated service. Records were not updated when th	
[192.491][192.459]	Has the operator maintained documentation of an examination when buried pipe was exposed?	Satisfactory
General Comment:		
Staff reviewed buried pipe examination forms for 2013 and	2014.	
[192.491][192.465(a)]	Has the operator maintained documentation of annual pipe-to-soil monitoring performed at a minimum of 1 per yr/15 months and/or isolated services or short sections of main less than 100 feet at a minimum of 10% annually?	Satisfactory
General Comment:		
Staff reviewed 2013 and 2014 records for pipe-to-soil monit	oring conducted on isolated sections in Ameren's GCS system.	
[192.491][192.465(b)]	Has the operator maintained documentation of rectifier or other impressed current power sources inspections at a minimum of 6 per year/ 2 1/2 months?	Satisfactory
General Comment:		
Staff reviewed 2013 and 2014 records for rectifier inspection	ns in Ameren's GCS and Maximo systems.	
[192.491][192.465(c)]	Has the operator maintained documentation of each critical interference bond, reverse current switch, diode, etc. inspections at a minimum of 6 per year/ 2 1/2 months and/or non-critical interference bond inspections at a minimum of 1 per year/15 months?	Not Applicable
General Comment:		
There are no critical or non-critical bonds within Ameren Ma	acomb's operating territory.	
[192.491][192.465(d)]	Has the operator taken prompt remedial actions to correct any deficiencies indicated by the monitoring?	Not Applicable
General Comment:	·	
There are no critical or non-critical bonds within Ameren Ma	acomb's operating territory.	
[192.491][192.465(e)]	Has the operator maintained documentation of unprotected pipeline surveys, inspections, or tests at a minimum of 3 years/39 months?	Not Applicable
General Comment:		
There are no unprotected pipelines within Ameren Macomb	's operating territory.	
[192.491][192.467(a),192.467(c),192.467(d)]	Has the operator maintained documentation of inspections or tests for electrical isolation at casings?	Satisfactory
General Comment:	· · · · · · · · · · · · · · · · · · ·	
Staff reviewed 2013 and 2014 for casing inspections, include	ling tests for electrical isolation.	

[192.491][192.469]	Does the operator have a sufficient number of test stations or other contact points for electrical measurement to determine the adequacy of cathodic protection?	Satisfactory
[192.491][192.471]	Has the operator maintained documentation of corrective actions taken when a test lead is no longer electrically conductive?	Not Applicable
General Comment:		
There have been no instances of a test lead becoming elec-	trically unconductive in 2013 or 2014.	
[192.491][192.473(b)]	Has the operator maintained documentation of inspections or tests to assure their cathodic protection system is not affecting adjacent underground metallic structures?	Satisfactory
[192.491][192.475(a)]	Has the operator maintained documentation of investigations or steps taken to minimize internal corrosion due to transportation of corrosive gas?	Not Applicable
General Comment:		
Ameren Macomb does not transport corrosive gas.		
[192.491][192.475(b)]	Has the operator maintained documentation of internal surface inspections performed when pipe is removed for any reason?	Satisfactory
General Comment:		
No steel pipelines within Ameren Macomb's operating territo	ory were removed for any reason in 2013 or 2014.	
[192.491][192.477]	Has the operator maintained documentation of internal corrosion coupon monitoring at a minimum of 2 per year/ 7 1/2 months?	Not Applicable
General Comment:	<u> </u>	
Ameren Macomb does not transport corrosive gas.		
[192.491][192.481]	Has the operator maintained documentation of atmospheric corrosion control monitoring at a minimum of 1 per 3 years/ 39 months?	Satisfactory
[192.491][192.479]	Has the operator maintained documentation of corrective action where atmospheric corrosion was discovered?	Satisfactory
[192.491][192.483(a),192.483(b),192.483(c)]	Has the operator maintained documentation demonstrating that pipe removed due to external corrosion has been repaired or replaced with pipe that was coated and cathodically protected?	Not Applicable
General Comment:		
No pipelines within Ameren Macomb's operating territory we	ere removed due to external corrosion durina 2013 or 2014.	

TRAINING - 83 IL ADM. CODE 520		Status
Category Comment:		
Training records are maintained at the Pawnee	Operating Center.	
[520.10(a) (1)]	Has the operator maintained documentation demonstrating that personnel have received adequate training?	Not Checked
[520.10(a) (2)]	Do training records include verbal instruction and/or on the job training for each job classification?	Not Checked
[520.10(b)]	Has the municipal operator maintained documentation demonstrating that personnel have received adequate training?	Not Applicable
General Comment:	<u>.</u>	
Ameren is not a municipal operator.		
[520.10(a)(5)]	Are procedures periodically updated to include new materials, new methods of operation and installation, and changes in general procedures?	Not Checked